

ABSTRACT

An optical power calibration method is used for calibrating a writing power of an optical storage carrier player, such as a Compact Disc Read/Write drive. The CD-R/W drive has an access device for writing data onto the optical storage carrier, such as the compact disc. The compact disc includes a center, an inner power calibration area (first calibration area), a data storage area, and an outer power calibration area (second calibration area). The optical power calibration method determines a writing location of the data in the data storage area, and controls the access device to perform an optical power calibration process in either the inner power calibration area or the outer power calibration area according to the writing location. Once completed, the method then utilizes a result of the optical power calibration process to determine a required writing power, and finally controls the access device to write the data to the optical storage carrier in the writing location with the required writing power.